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(54) DIGITAL IMAGE FORMING DEVICE

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(57) Abstract

**PURPOSE:** To provide a digital image forming device which always has constant tone reproduction to an original concerning the change of the surface potential of a photosensitive body, the change of transfer efficiency, and the change of the sensitivity of the photosensitive body and where a reproduced image desired by a user is obtained.

**CONSTITUTION:** The adhesive quantity of a reference toner image formed on a photosensitive drum 41 is detected by an AIDC sensor 210, and image reproducing density is adjusted based on the detected value by the sensor 210 so that the reproducing density of the reference toner image formed on the drum 41 may be kept constant. By correcting the change of  $\gamma$  characteristic caused as the result of adjusting the image reproducing density and the result of changing the parameters of temperature and humidity which change the  $\gamma$  characteristic, the image of the original is reproduced, thereby always reproducing the image of the original with the constant tone.

